| <br> | <b>.</b> . | laims |  |
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| Application No. | Applicant(s)   |
|-----------------|----------------|
| 09/026,080      | HEMBREE ET AL. |
| Examin r        | Art Unit       |
| Roy K Potter    | 2822           |

| R ject d    | - | (Through numeral)<br>Canc II d |
|-------------|---|--------------------------------|
| <br>Allowed | + | Restricted                     |

| N | Non-El cted  |  |
|---|--------------|--|
| П | Interference |  |

| Α | App al   |
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| 0 | Objected |

| E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E     E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Cla         | aim  | Date                                             |                  |          |          |           |           | Clá                                              | Claim Date         |                 |              |          |                                                  | [        | Claim Date |          |          |        |         |                 |       |     |         |                 |          |             |          |                 |          |               |          |
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| 1     =     101     102     102     102     102     102     102     102     102     103     103     104     104     104     104     104     105     105     105     106     106     106     106     106     106     107     107     107     107     107     107     107     107     107     108     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             | 3    |                                                  |                  |          |          | -         |           |                                                  |                    |                 |              | <u>—</u> |                                                  |          |            |          |          |        |         |                 |       |     | 퓹       |                 |          | -           |          |                 |          | - 1           |          |
| 1     =     101     102     102     102     102     102     102     102     102     103     103     104     104     104     104     104     105     105     105     106     106     106     106     106     106     107     107     107     107     107     107     107     107     107     108     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <u>a</u>    | jing |                                                  |                  |          |          | ľ         |           |                                                  |                    |                 | 귤            | ij       | 1                                                |          |            |          | ļ        | 1      | 1       |                 |       | ㅁ   | ji      |                 |          |             |          |                 |          |               |          |
| 1     =     101     102     102     102     102     102     102     102     102     103     103     104     104     104     104     104     105     105     105     106     106     106     106     106     106     107     107     107     107     107     107     107     107     107     108     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | j iĒ        | ij   |                                                  |                  |          |          | ı         |           |                                                  |                    |                 | iĒ           | Ę        | ]                                                |          |            |          |          |        |         |                 |       | 证   | )<br>Įį |                 |          |             |          |                 | ı        |               |          |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Ĺ           | ٥    |                                                  |                  |          |          | j         |           |                                                  |                    |                 |              |          | <u> </u>                                         |          |            |          |          |        |         | Ш               |       |     |         |                 |          |             |          |                 | $\perp$  | ightharpoonup | _        |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |             |      | =                                                |                  |          | [        |           |           |                                                  |                    | Ш               |              |          |                                                  |          |            |          |          |        |         | Ш               |       |     |         |                 |          |             | Ш        |                 | _        | $\dashv$      | _        |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |             |      |                                                  |                  | _        |          | _         |           |                                                  |                    | Ш               |              |          | ļ                                                |          |            |          | _        |        |         | Щ               |       |     |         | _               |          | <u> </u>    | Ш        |                 | _        | _             | _        |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |             |      | Ξ                                                |                  | _        |          |           |           |                                                  |                    | Ш               | L            |          |                                                  | Ш        |            |          |          | _      | 4_      | Ш               |       |     |         |                 |          | <u> </u>    |          |                 | _        | _             | _        |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |             |      | _                                                |                  | _        | $\dashv$ |           |           |                                                  | $oldsymbol{\perp}$ | Ш               |              | 54       | ļ                                                | Ш        | _          | _        |          |        | $\bot$  | Ш               |       |     | 104     |                 |          | ↓_          | Щ        |                 | _        | _             |          |
| For   For |             |      | _                                                |                  | _        | _        |           |           |                                                  | <del> </del>       | Щ               |              |          | <u> </u>                                         | Ш        | $\dashv$   | _        | _        | _      | _       | Ш               |       |     |         |                 | $\perp$  | <u> </u>    | _        | _               | -        | $\dashv$      | $\dashv$ |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |             |      | =                                                |                  | _        | _        |           |           |                                                  | <u> </u>           | <u> </u>        |              | 56       | <u> </u>                                         |          | $\dashv$   | $\dashv$ |          |        |         | Ш               |       |     | 106     |                 |          | ╄           | Н        |                 | $\dashv$ | -             | ᅴ        |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <u> </u>    |      |                                                  | $\vdash$         |          | -        | _         |           |                                                  | $\vdash$           | Щ               | <u> </u>     |          | ļ                                                |          |            | 4        | _        |        |         | $\sqcup$        |       |     |         | _               | -        | ₩           | Н        |                 |          | +             | $\dashv$ |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             |      |                                                  | $\vdash$         | $\dashv$ | -        |           |           | <u> </u>                                         | ┼                  | Н               | <u> </u>     |          | _                                                |          | -          | $\dashv$ | +        | +      | +       | Н               |       |     |         | -               | -        | $\vdash$    | Н        | -               | $\dashv$ | $\dashv$      | $\dashv$ |
| 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u> </u>    |      | _                                                | $\dashv$         |          |          | -         |           |                                                  | -                  | Н               |              |          | -                                                | Н        | $\dashv$   | $\dashv$ | _        | +      | +-      | ┦               |       |     |         | -               | +-       | ┼           | Н        |                 | _        | $\dashv$      | -        |
| 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u> </u>    |      |                                                  | $\vdash$         | -        |          | $\dashv$  | _         | -                                                | $\vdash$           | Н               | <u> </u>     |          | ├-                                               | $\vdash$ | $\dashv$   | $\dashv$ | +        | +      | +       | Н               |       | . — |         | $\dashv$        | +        | $\vdash$    | $\vdash$ | $\vdash$        | -+       | $\dashv$      | $\dashv$ |
| 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -           |      | _                                                | $\vdash$         |          |          |           |           | ⊢                                                | $\vdash$           | $\vdash \vdash$ |              |          | ┢╌                                               | $\vdash$ | -          | $\dashv$ | $\dashv$ | +      | +       | Н               |       |     | 111     | $\dashv$        |          | +           | Н        | $\vdash \vdash$ | $\dashv$ | $\dashv$      | $\dashv$ |
| 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <del></del> |      | _                                                | $\vdash$         | -        |          | -         |           | ├-                                               | +-                 | $\vdash \vdash$ | <u> </u>     |          | 1                                                | H        | $\dashv$   | -+       |          | +-     | +-      | Н               |       |     | 112     | $\dashv$        | $\dashv$ | ╁           | Н        | $\vdash \vdash$ | $\dashv$ | $\dashv$      | $\dashv$ |
| 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -           |      |                                                  | $\vdash$         | $\dashv$ |          | -         |           | -                                                | +-                 | $\vdash \vdash$ | <del> </del> |          | $\vdash$                                         | $\vdash$ | -          | $\dashv$ |          | +      | +       | Н               |       |     | 114     | +               |          | ${\dagger}$ | $\vdash$ | $\vdash$        | +        | +             | $\dashv$ |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | H-          |      | _                                                | $\vdash$         | ᅥ        |          | -         |           | -                                                | +-                 | $\vdash \vdash$ |              |          | Н                                                | Н        | +          | $\dashv$ |          | +      | +       | Н               |       | -   |         | -+              | - -      | +           | H        | H               | $\dashv$ | $\dashv$      | $\dashv$ |
| 17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             |      |                                                  | -                | -1       | -        | -         |           | _                                                | +-                 | Н               |              |          | H                                                |          |            | -        | -        | ╅      | ┪┈      | Н               |       |     | 116     |                 | $\neg$   | +           | H        |                 |          | $\dashv$      | $\neg$   |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             |      |                                                  | -                | -        | $\dashv$ | $\dashv$  |           | H                                                | $\vdash$           | H               |              |          | $\vdash$                                         |          | -          |          |          | +      | +       | Н               |       |     |         | $\dashv$        | +        | T           | Н        | $\vdash$        |          | $\dashv$      | _        |
| 19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -           |      |                                                  | $\vdash$         | 一        | _        | $\dashv$  |           |                                                  |                    | Н               |              |          | <del>                                     </del> |          |            | 7        |          | +      | 1       | Н               |       |     |         |                 | $\top$   | 1           | Н        |                 |          | 一             | $\neg$   |
| 20 =     70     120     121 =     121 =     121 =     121 =     121 =     122 =     122 =     122 =     122 =     122 =     122 =     122 =     122 =     122 =     122 =     123 =     123 =     123 =     123 =     123 =     123 =     123 =     124 =     125 =     125 =     126 =     126 =     126 =     126 =     126 =     127 =     127 =     127 =     127 =     127 =     127 =     127 =     128 =     128 =     128 =     128 =     128 =     128 =     129 =     129 =     129 =     129 =     129 =     129 =     130 =     130 =     130 =     130 =     130 =     131 =     131 =     131 =     131 =     131 =     131 =     131 =     131 =     132 =     132 =     132 =     132 =     133 =     133 =     133 =     133 =     133 =     133 =     133 =     133 =     135 =     136 =     136 =     136 =     136 =     136 =     137 =     137 =     137 =     137 =     137 =     137 =                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             |      |                                                  | $\Box$           | $\dashv$ | _        | 一         |           |                                                  | 1                  | Н               |              |          | H                                                |          | $\exists$  | 寸        | $\dashv$ | $\top$ | 1       | П               |       |     |         |                 | T        |             |          |                 | $\neg$   | $\neg$        |          |
| 21 =     71       72 =     121       122       123       123       124       123       124       124       124       124       124       124       124       125       126       126       126       126       126       127       127       127       127       127       127       128       128       128       128       128       128       129       129       130       130       130       130       130       130       130       130       131       131       131       131       131       131       131       131       132       132       132       133       133       133       133       133       133       133       133       133       133       133       133       133       133       133       133       133       133       133       133       133       133       133       133       133       133       133       133       133       133       133       137       137       13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             |      | _                                                | $\vdash$         | _        | $\neg$   | $\neg$    |           |                                                  | t                  | П               |              |          | 一                                                |          |            | 7        |          |        | 1       | П               |       |     |         |                 |          | 1           | Ħ        |                 |          | $\neg$        |          |
| T2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             |      | _                                                | $\overline{}$    | ┪        | _        | $\dashv$  |           | <u> </u>                                         | +                  | М               |              |          |                                                  |          | $\neg$     | ┪        | _        |        |         | П               |       |     | 121     |                 | _        |             | Ħ        |                 |          | 十             | _        |
| 23   123   123   124   124   124   125   126   126   126   126   126   126   127   127   127   127   127   127   127   128   129   129   129   129   129   129   130   130   131   131   131   131   131   131   131   131   132   132   132   132   132   132   133   133   133   133   133   133   134   134   134   134   134   134   134   134   134   134   134   135   135   135   136   136   136   136   136   137   137   137   138   138   138   138   138   138   139   140   141   141   141   141   142   142   142   143   144   144   144   144   144   144   144   144   144   144   144   145   146   146   146   147   148   149   149   14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             |      |                                                  |                  | ╛        | 寸        | 寸         |           | _                                                | $T^{-}$            | П               |              |          | =                                                |          |            |          |          | $\top$ | _       | П               |       |     | 122     |                 |          | T           | П        |                 | T        | 寸             |          |
| 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             |      |                                                  |                  |          |          | $\exists$ |           |                                                  |                    | H               |              |          |                                                  |          | $\Box$     | 寸        |          |        | $\top$  | П               |       |     |         |                 |          | T           | П        |                 |          |               |          |
| 25 =     75     125     126     126     126     127     127     127     127     127     127     127     127     128     128     128     128     128     129     129     130     130     130     131     131     131     131     132     132     132     132     132     132     133     133     133     133     133     133     134     134     134     134     134     134     135     135     135     135     135     136     137     137     137     137     137     137     137     137     137     137     137     137     139     139     140     140     141     141     141     142     142     142     142     142     142     142     143     144     144     144     144     144     144     144     144     144     145     146     146     146     146     146     146     147     147 <td></td> <td></td> <td></td> <td></td> <td>T</td> <td></td> <td>一</td> <td></td> <td></td> <td></td> <td>П</td> <td></td> <td></td> <td>=</td> <td></td> <td><math>\neg</math></td> <td>T</td> <td>-  </td> <td></td> <td><math>\top</math></td> <td>П</td> <td></td> <td></td> <td>124</td> <td></td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td>一</td> <td></td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |             |      |                                                  |                  | T        |          | 一         |           |                                                  |                    | П               |              |          | =                                                |          | $\neg$     | T        | -        |        | $\top$  | П               |       |     | 124     |                 |          | 1           |          |                 |          | 一             |          |
| 26 =     76       27 =     77       28 =     78       29       128       30       80         31       81         32       82         33       83         34       84         35       85         36       86         37       87         38       88         39       90         40       90         41       91         42       92         43       94         44       94         46       96         47       97         48       99         148       148                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             | 25   | =                                                |                  | T        |          | $\neg$    |           |                                                  |                    | П               |              | 75       | П                                                |          |            |          |          |        |         | П               |       |     | 125     |                 |          |             |          |                 |          | $\Box$        |          |
| 27 =     77     127     128     128     128     129     129     129     129     129     129     130     130     130     130     130     130     131     131     131     131     131     132     132     132     132     133     133     133     133     133     133     133     133     133     133     133     133     133     133     133     133     133     133     133     133     133     133     133     133     133     133     133     133     133     133     133     133     133     133     133     133     133     133     133     133     133     133     133     133     133     133     133     133     133     133     133     133     133     133     133     133     133     133     133     133     133     133     133     133     133     133     133     133     133     133 <td></td> <td></td> <td>=</td> <td></td> <td><math>\neg</math></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>П</td> <td></td> <td>76</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>П</td> <td></td> <td></td> <td>126</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>T</td> <td></td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             |      | =                                                |                  | $\neg$   |          |           |           |                                                  |                    | П               |              | 76       |                                                  |          |            |          |          |        |         | П               |       |     | 126     |                 |          |             |          |                 |          | T             |          |
| 29 79   30 80   31 81   32 82   33 83   34 84   35 85   36 86   37 87   38 88   39 89   40 90   41 91   42 92   43 93   44 94   45 95   46 96   47 97   48 98   49 149                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |             |      | Ξ                                                |                  |          |          |           |           |                                                  |                    |                 |              |          |                                                  |          |            |          |          |        |         |                 |       |     |         |                 |          |             |          |                 |          | $\Box$        |          |
| 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             | 28   | =                                                |                  |          |          |           |           |                                                  |                    |                 |              |          |                                                  |          |            |          |          |        |         |                 |       |     | 128     |                 | ]        |             |          |                 |          |               |          |
| 31 81   32 131   33 83   34 84   35 85   36 86   37 87   38 88   39 89   40 90   41 91   42 92   43 94   44 94   45 96   46 96   49 99   148 98   148 148   49 149                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             |      |                                                  |                  |          |          |           |           |                                                  |                    |                 |              |          |                                                  |          |            |          |          |        |         |                 |       |     | 129     |                 |          |             |          |                 |          | $\perp$       |          |
| 32   82   132   133     33   83   133   133     34   84   134   134     35   85   135   135     36   86   136   137     38   87   137   137     38   88   138   138     39   89   139   139     40   90   140   141     41   91   141   141     42   92   142   142     43   93   143   143     44   94   144   144     45   96   146   147     46   96   146   147     48   98   148   149                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             |      |                                                  |                  | _        |          |           |           |                                                  |                    | Ш               |              |          | L                                                |          |            | _        |          |        | $\perp$ | Ш               |       |     |         |                 |          | 丄           |          |                 |          | _             |          |
| 33   34   133   134     35   36   85   135     36   37   86   136     37   88   137     38   138   138     39   89   139     40   90   140     41   91   141     42   92   142     43   93   143     44   94   144     45   95   145     46   96   146     47   97   147     48   98   148     49   99   149                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <u> </u>    |      |                                                  | Ш                | _        |          | _         |           |                                                  |                    | Ш               |              |          | <u> </u>                                         |          |            | _        | _        | _      | _       | Ш               |       |     |         |                 |          | <u> </u>    |          |                 | _        |               |          |
| 34 84   35 134   36 85   37 136   38 87   39 138   40 90   41 91   42 92   43 93   44 94   45 95   46 96   47 97   48 99   49 148   99 149                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <u></u>     |      |                                                  | Ц                | _        | _        | _         |           |                                                  |                    | Ш               |              |          | ļ                                                |          |            | _        | _        | 4      | $\bot$  | Ш               |       |     | 132     |                 |          | <u> </u>    | Щ        |                 | _        | _             | _        |
| 35 85   36 135   37 137   38 87   39 138   40 90   41 91   42 92   43 93   44 94   45 95   46 96   47 97   48 98   49 148   99 149                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u> </u>    |      | L_                                               |                  | _        |          |           |           | ļ                                                | ļ.,                | Ш               |              |          | <u> </u>                                         | Ш        |            | _        | _        | 4      | -       | Ш               |       |     |         | $\dashv$        |          | ـ           |          | $\sqcup$        | _        | $\dashv$      | _        |
| 36   86   136     37   87   137     38   88   138     39   89   139     40   90   140     41   91   141     42   92   142     43   93   143     44   94   144     45   95   145     46   96   146     47   97   147     48   98   148     49   99   149                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |      | L                                                | $\sqcup$         | _        | _        |           |           | <u> </u>                                         | <b>Ļ</b>           | Щ               |              |          | <b>.</b>                                         | Ш        | $\Box$     | $\dashv$ | _        | +.     | +-      | Ш               |       |     | 134     | $\dashv$        | $\perp$  | ⊢           | Щ        | $\vdash \vdash$ |          | -             | _        |
| 37   88   137     38   88   138     39   90   140     41   91   141     42   92   142     43   93   143     44   94   144     45   95   145     46   96   146     47   97   147     48   98   148     49   99   149                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <u> </u>    |      | <u> </u>                                         | $\vdash \vdash$  | _        | -        | <b>-</b>  |           | <u> </u>                                         | $\vdash$           | Щ               | L            |          | <u> </u>                                         | Ш        | $\dashv$   | $\dashv$ | +        | +      | +       | Н               |       |     |         | $\dashv$        | -        | +-          | $\vdash$ | $\vdash \vdash$ | _        | $\dashv$      | _        |
| 38   88   138     39   90   139     40   90   140     41   91   141     42   92   142     43   93   143     44   94   144     45   95   145     46   96   146     47   97   147     48   98   148     49   99   149                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <u> </u>    |      | <u> </u>                                         | $\vdash \vdash$  | $\dashv$ | _        |           | $\dashv$  | <u> </u>                                         | $\vdash$           | $\square$       |              |          | <b> </b>                                         |          | $\dashv$   | $\dashv$ | +        | +-     | +       | Н               |       |     |         |                 |          | ₩           | Н        | $\vdash$        |          | $\dashv$      | -        |
| 39   89   139     40   90   140     41   91   141     42   92   142     43   93   143     44   94   144     45   95   145     46   96   146     47   97   147     48   98   148     49   99   149                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <u> </u>    |      | <u> </u>                                         | $\vdash \vdash$  | $\dashv$ | -1       | $\dashv$  |           | <u> </u>                                         | $\vdash$           | $\vdash \vdash$ |              |          | ⊢                                                | $\vdash$ |            | $\dashv$ | -        | +      | +       | $\vdash \vdash$ |       |     |         | $\dashv$        | +        | ┼-          | $\vdash$ | $\vdash \vdash$ | -        | -+            |          |
| 40   90   140     41   91   141     42   92   142     43   93   143     44   94   144     45   95   145     46   96   146     47   97   147     48   98   148     49   99   149                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             |      | -                                                | $\vdash$         |          |          |           |           | $\vdash$                                         | $\vdash$           | $\vdash \vdash$ |              |          | ┢                                                | _        | $\dashv$   | -        | -+       | +      | +-      | $\vdash \vdash$ |       | -   |         | $\dashv$        | +        | ┼-          | $\vdash$ | $\vdash \vdash$ | $\dashv$ | $\dashv$      |          |
| 41   91   141     42   92   142     43   93   143     44   94   144     45   95   145     46   96   146     47   97   147     48   98   148     49   99   149                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <u> </u>    |      | -                                                | $\vdash$         | +        | -        |           |           | $\vdash$                                         | $\vdash$           | $\vdash \vdash$ | <u> </u>     |          | ╁                                                | -        |            | $\dashv$ | $\dashv$ | +      | +-      | Н               | ::::: |     |         | $\dashv$        | +        | ┼           | $\vdash$ | $\vdash\vdash$  | -        | $\dashv$      | -        |
| 42 92   43 93   44 94   45 95   46 96   47 97   48 98   49 99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             |      | $\vdash$                                         | $\vdash$         | $\dashv$ | -        |           |           | $\vdash$                                         | $\vdash$           | $\vdash \vdash$ | <u> </u>     |          | -                                                | $\vdash$ |            | -+       | $\dashv$ | +      | +       | $\vdash\vdash$  |       |     |         | $\dashv$        | +        | ╁           | $\vdash$ | $\vdash \vdash$ | $\dashv$ | $\dashv$      | $\dashv$ |
| 43 93   44 94   45 95   46 96   47 97   48 98   49 99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |             | 41   | $\vdash$                                         | $\vdash$         | $\dashv$ | $\dashv$ | $\dashv$  | _         | $\vdash$                                         | $\vdash$           | $\vdash$        |              |          | ╁                                                | $\vdash$ | -          | +        | $\dashv$ | +      | +       | Н               |       |     | 141     | $\dashv$        | +        | ╁╌          | Н        | $\vdash$        | -        | $\dashv$      | $\dashv$ |
| 44 94   45 95   46 96   47 97   48 98   49 99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <u> </u>    |      | $\vdash$                                         | $\vdash$         | ᅱ        |          | $\dashv$  | -         | $\vdash$                                         | ╁                  | $\dashv$        | -            |          | $\vdash$                                         | $\vdash$ | $\dashv$   | $\dashv$ | $\dashv$ | +      | +       | $\vdash$        |       |     |         | +               | +        | ╁┈          | Н        | $\vdash$        | $\dashv$ | $\dashv$      | -        |
| 45 95   46 96   47 97   48 98   49 99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |             | 44   | $\vdash$                                         | $\vdash$         | $\dashv$ | $\dashv$ | $\dashv$  | _         | $\vdash$                                         | Н                  | Н               |              |          | 1                                                | $\vdash$ | -          | $\dashv$ | $\dashv$ | +      | +       | H               |       |     | 144     | $\dashv$        |          | ╁╌          | H        | Н               | $\dashv$ | $\dashv$      | $\neg$   |
| 46 96   47 97   48 98   49 148                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             |      | <del>                                     </del> | $\vdash$         | +        | -        |           | -         | $\vdash$                                         | $\vdash$           | $\vdash$        |              |          | $\vdash$                                         |          | _          | $\dashv$ | $\dashv$ | +      | 1       | $\vdash$        |       |     | 145     | $\dashv$        |          | $\vdash$    | Н        | $\vdash$        | -        | $\dashv$      | _        |
| 47 97 147   48 98 148   49 99 149                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |             | 46   | $\vdash$                                         | $\vdash \dagger$ | $\dashv$ | $\dashv$ |           | -         | <del>                                     </del> | $\vdash$           | $\vdash \vdash$ |              | 96       | $\vdash$                                         | $\vdash$ | -          | $\dashv$ | $\dashv$ | +      | +       | $\vdash$        |       |     | 146     | $\dashv$        | +        | $\vdash$    | Н        | $\vdash$        | -        | $\dashv$      |          |
| 48                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             |      | $\vdash$                                         | $\vdash$         | 1        | $\dashv$ | $\dashv$  | $\exists$ | $\vdash$                                         | Н                  | $\vdash$        |              |          | Т                                                | Н        | _          | +        | $\top$   | 1      | $\top$  | Н               |       |     |         | +               | $\dashv$ | T           | П        | H               | 一        | $\top$        |          |
| 49 99 149 149                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             |      | $\vdash$                                         | $\vdash$         | $\dashv$ | _        | $\neg$    |           |                                                  | П                  | Н               |              |          | П                                                |          | _          | _        | 十        | $\top$ | $\top$  | П               |       |     | 148     | $\neg \uparrow$ | +        | 1           | П        | $\vdash$        | 1        | $\dashv$      | $\neg$   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             |      |                                                  | $\vdash$         | ┪        | ┪        | 寸         | _         | $\vdash$                                         | $\vdash$           | Н               |              | 99       | Г                                                | П        | 寸          | 一        | 1        |        | 1       | П               |       |     | 149     |                 | $\top$   | T           | П        |                 |          | 十             | $\dashv$ |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             | 50   |                                                  | $\Box$           | T        | T        |           |           |                                                  | П                  |                 |              | 100      | П                                                |          | $\neg$     |          | 丁        |        |         |                 |       |     | 150     | $\neg$          |          | 1           |          |                 |          | $\exists$     |          |